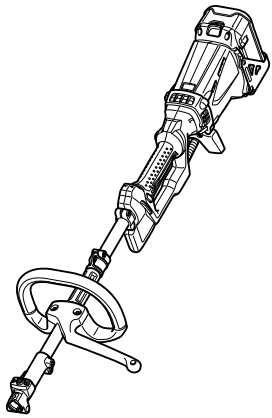
ENGLISH (Original instructions)

INSTRUCTION MANUAL

Cordless Multi Function Power Head

BUX360
BUX361
BUX362
UX360D
UX361D
UX362D



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IMPORTANT: Read Before Using.

ENGLISH (Original instructions)

SPECIFICATIONS

Model		BUX360, BUX361, BUX362, UX360D, UX361D, UX362D
No load speed (with brushcutter attachment EM401MP and nylon cutting head)	High	0 - 6,600 min^{-1}
	Low	0 - 4,900 min^{-1}
Overall length		1,019 mm
Net weight		4.6 kg
Rated voltage		D.C. 36 V
Standard battery cartridge(s) ⚠Warning: Use only the battery cartridge(s) described.		BL3626, BL3622A

• Due to our continuing program of research and development, the specifications herein are subject to change without notice.

• Specifications and battery cartridge may differ from country to country.

• Weight, with battery cartridge, according to EPTA-Procedure 01/2003

Approved attachment	Model
Brushcutter attachment	EM401MP, EM402MP
Hedge trimmer attachment	EN400MP, EN401MP
Pole saw attachment	EY400MP, EY401MP
Coffee harvester attachment	EJ400MP
Cultivator attachment	KR400MP
Shaft extension attachment	LE400MP

END018-3

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Symbol

The following show the symbols used for the equipment. Be sure that you understand their meaning before use.

· Take particular care and attention.

· Read instruction manual.

· Do not expose to moisture.

· Only for EU countries
Do not dispose of electric equipment or battery pack together with household waste material!
In observance of the European Directives, on Waste Electric and Electronic Equipment and Batteries and Accumulators and Waste Batteries and Accumulators and their implementation in accordance with national laws, electric equipment and batteries and battery pack(s) that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

General Power Tool Safety Warnings

⚠ **WARNING Read all safety warnings and all instructions.** Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work area safety

1. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

Electrical safety

4. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power**

tools. Unmodified plugs and matching outlets will reduce risk of electric shock.

5. **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
6. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
7. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
8. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
9. **If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply.** Use of an GFCI reduces the risk of electric shock.

Personal safety

10. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
11. **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
12. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
13. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
14. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
15. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
16. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

Power tool use and care

17. **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
18. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
19. **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
20. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
21. **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
22. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
23. **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

Battery tool use and care

24. **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
25. **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
26. **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
27. **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water.**

If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

Service

28. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.
29. **Follow instruction for lubricating and changing accessories.**
30. **Keep handles dry, clean and free from oil and grease.**

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IMPORTANT SAFETY INSTRUCTIONS

FOR BATTERY CARTRIDGE

1. **Before using battery cartridge, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.**
2. **Do not disassemble battery cartridge.**
3. **If operating time has become excessively shorter, stop operating immediately. It may result in a risk of overheating, possible burns and even an explosion.**
4. **If electrolyte gets into your eyes, rinse them out with clear water and seek medical attention right away. It may result in loss of your eyesight.**
5. **Do not short the battery cartridge:**
   (1) **Do not touch the terminals with any conductive material.**
   (2) **Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.**
   (3) **Do not expose battery cartridge to water or rain.**

   A battery short can cause a large current flow, overheating, possible burns and even a breakdown.
6. **Do not store the tool and battery cartridge in locations where the temperature may reach or exceed 50˚ C (122˚ F).**
7. **Do not incinerate the battery cartridge even if it is severely damaged or is completely worn out. The battery cartridge can explode in a fire.**
8. **Be careful not to drop or strike battery.**
9. **Do not use a damaged battery.**
10. **Follow your local regulations relating to disposal of battery.**

SAVE THESE INSTRUCTIONS.

Tips for maintaining maximum battery life

1. **Charge the battery cartridge before completely discharged.**
   Always stop tool operation and charge the battery cartridge when you notice less tool power.
2. **Never recharge a fully charged battery cartridge.**
   Overcharging shortens the battery service life.
3. **Charge the battery cartridge with room temperature at 10˚ C - 40˚ C (50˚ F - 104˚ F). Let a hot battery cartridge cool down before charging it.**
4. **Charge the battery cartridge once in every six months if you do not use it for a long period of time.**

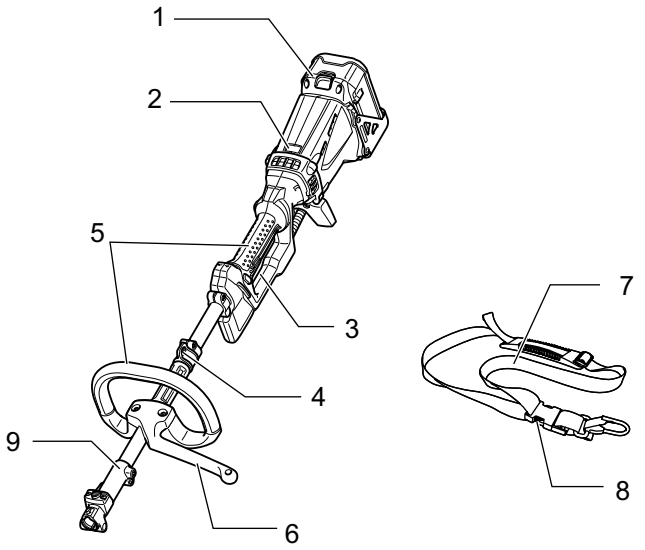
INTENDED USE

This cordless multi function power head is intended for driving an approved attachment listed in the section "SPECIFICATIONS" of this instruction manual. Never use the unit for the other purpose.

⚠WARNING:

- **Read the instruction manual of the attachment as well as this instruction manual before using.** Failure to follow the warnings and instructions may result serious injury.

PARTS DESCRIPTION



1	Battery cartridge	5	Grip	9	Joint
2	Indicator lamp	6	Barrier *		
3	Switch trigger	7	Shoulder harness		
4	Hanger (suspension point)	8	Buckle		

* In some countries, the barrier is not provided with the tool.

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FUNCTIONAL DESCRIPTION

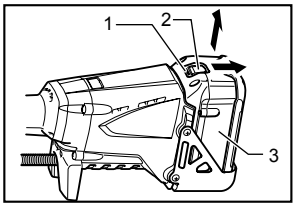
⚠WARNING:

- **Always be sure that the tool is switched off and the battery cartridge is removed before adjusting or checking functions on the tool.** Failure to switch off and remove the battery cartridge may result in serious personal injury from accidental start-up.

Installing or removing battery cartridge

⚠CAUTION:

- **Hold the tool and the battery cartridge firmly when installing or removing battery cartridge.** Failure to hold the tool and the battery cartridge firmly may cause them to slip off your hands and result in damage to the tool and battery cartridge and a personal injury.
- Always switch off the tool before installing or removing of the battery cartridge.



1. Red indicator
2. Button
3. Battery cartridge

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To remove the battery cartridge, slide it from the tool while sliding the button on the front of the cartridge.
To install the battery cartridge, align the tongue on the battery cartridge with the groove in the housing and slip it into place. Always insert it all the way until it locks in place with a little click. If you can see the red indicator on the upper side of the button, it is not locked completely. Install it fully until the red indicator cannot be seen. If not, it may accidentally fall out of the tool, causing injury to you or someone around you.

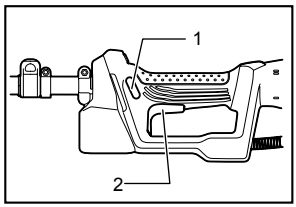
NOTE:

- Do not use force when installing the battery cartridge. If the cartridge does not slide in easily, it is not being inserted correctly.

Power switch action

⚠WARNING:

- **Before inserting the battery cartridge in the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released. Do not pull the switch trigger hard without pressing in the lock-off button. This can cause switch breakage.** Operating a tool with a switch that does not actuate properly can lead to loss of control and serious personal injury.



1. Lock-off button
2. Switch trigger

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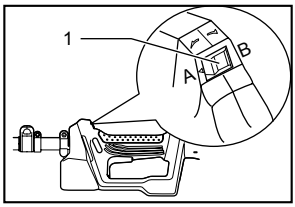
To prevent the switch trigger from being accidentally pulled, a lock-off button is provided.
To start the tool, press in the lock-off button and pull the switch trigger. The tool speed is increased by increasing pressure on the switch trigger. Release the switch trigger to stop.

Reversing Switch for Debris Removal



1. Reversing switch
2. A position depressed for normal operation
3. B position depressed for weed and debris removal

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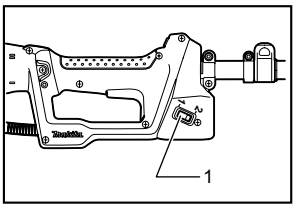
This tool has a reversing switch. To remove debris jammed or entangled in the tool, depress the "B" side of the switch to reverse the rotation. For normal operation, depress the "A" side of the switch.

NOTICE:

- Always check the direction of rotation before operation.
- Use the reversing switch only after the tool comes to a complete stop. Changing the direction of rotation before the tool stops may damage it.

Speed change



1. Speed change switch lever

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Two speed ranges can be preselected with the speed change switch.

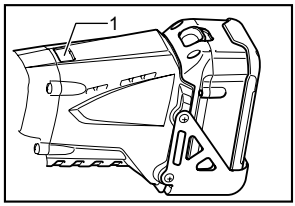
Flipping the speed change switch lever to the "1" position will set the tool to the low speed range and the "2" position will set the tool to the high speed range.

Battery/motor protection system

The battery cartridge and tool are provided with protection devices that will automatically reduce or cut off power to the tool when overload situations develop that may cause damage to the tool or battery cartridge.

If the tool becomes overloaded but not locked up a protector is provided to reduce the revolutions to protect the motor. In this case the two indicator lamps described in the table below do not light or blink.

All other protection functions can be identified by the indicator lamps described in the table below.



1. Indicator lamps

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		Status	Action to be taken
-	Blinking	Battery power has been nearly used up.	Replace the battery with fully charged one.
-	Lighting On	Battery protector is shutting off the power - battery power has been used up.	Replace the battery with fully charged one.
Blinking	-	Overload protector is shutting off the power - the motor was locked.	Release the switch trigger and remove the cause of the motor lock or overload. If the cutting tool is locked by entangling weeds or the like, always remove the battery cartridge before clearing it.
Lighting On	-	Overheat protector is shutting off the power - overheating.	Rest the equipment for a while.
Blinking	Blinking	Electric or electronic malfunction	Ask your local authorized service center for repairs.

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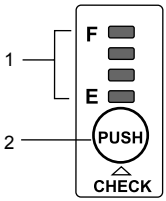
Battery remaining capacity indicator (only for models with Battery BL3622A)

Battery BL3622A is equipped with the battery remaining capacity indicator.



1. Indicator lamps
2. CHECK button

011715

Press the CHECK button to indicate the battery remaining capacity. The indicator lamps will then light for approx. three seconds.

Indicator lamps Lighted Off Blinking	Remaining capacity
E ■ ■ ■ ■ F	70% to 100%
■ ■ ■ □	45% to 70%
■ ■ □ □	20% to 45%
■ □ □ □	0% to 20%
▣ □ □ □	Charge the battery.
■ ■ □ □ □ □ ■ ■	The battery may have malfunctioned.

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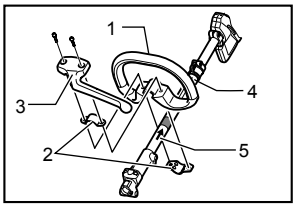
- When only the lowermost indicator lamp (next to the “E”) blinks, or when none of the indicator lamps light, the battery capacity has run out, so the tool does not operate. In these cases, charge the battery or replace the empty battery with a fully charged one.
- When two or more indicator lamps do not light even after charging is complete, the battery has reached the end of its service life.
- When the upper two and lower two indicator lamps light alternately, the battery may have malfunctioned. Contact your local Makita authorized service center.

NOTE:
- The indicated capacity may be lower than the actual level during use or immediately after using the tool.
- Depending on the conditions of use and the ambient temperature, the indication may differ slightly from the actual capacity.

ASSEMBLY

⚠WARNING:
- **Always be sure that the tool is switched off and battery cartridge is removed before carrying out any work on the tool.** Failure to switch off and remove the battery cartridge may result in serious personal injury from accidental start-up.
- **Never start the tool unless it is completely assembled.** Operation of the tool in a partially assembled state may result in serious personal injury from accidental start-up.

Installing the grip



1. Grip
2. Clamp
3. Barrier
4. Spacer
5. Arrow mark

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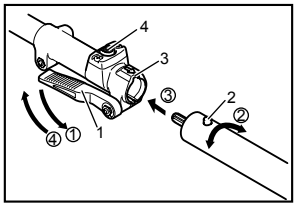
Securely fit the barrier and grip onto the shaft pipe with two screws and clamps.

Make sure that the grip/barrier assembly is located between the spacer and the arrow mark. Do not remove or shrink the spacer. Once assembled, do not remove the barrier.

⚠CAUTION:
- Never install the grip on the label or joint.

NOTE:
- In some countries, the barrier and spacer are not provided with the tool. In that case, align the handle to further side of the line which is indicated by the arrow marks.

Mounting the attachment



1. Lock lever
2. Pin
3. Arrow mark
4. Release button

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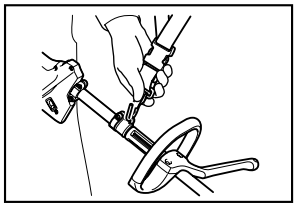
To mount the attachment to a power unit:

1. Make sure that the lock lever is not tightened.
2. Align the pin with the arrow mark.
3. Insert the shaft into the drive shaft of the power unit until the release button pops up.
4. Tighten the lock lever firmly as shown.

To remove the attachment, loosen the lock lever, press the lock button and withdraw the shaft.

NOTICE:
- Do not tighten the lock lever without the shaft of the attachment inserted. Otherwise the lock lever may tighten the entrance of the drive shaft too much and damage it.

Attaching shoulder harness



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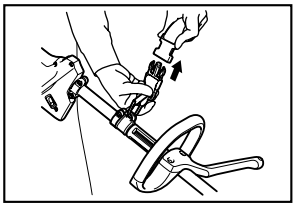
Put the shoulder harness on your left shoulder by putting your head and right arm through it. Keep the tool on your right side.

After putting the shoulder harness, attach it to the tool by connecting the buckles provided on both the tool hook and the harness. Be sure that the buckles click and lock completely in place.

Adjust the strap to the suitable length for your operation.



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The buckle is provided with a means of quick release which can be accomplished by simply squeezing the sides and the buckle.

⚠**WARNING:**

- **Be extremely careful to maintain control of the tool at all times. Do not allow the tool to be deflected toward you or anyone in the work vicinity.** Failure to keep control of the tool could result in serious injury to the bystander and the operator.

MAINTENANCE

⚠**WARNING:**

- **Always be sure that the tool is switched off and battery cartridge is removed before attempting to perform inspection or maintenance on the tool.** Failure to switch off and remove the battery cartridge may result in serious personal injury from accidental start-up.

NOTICE:

- Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized Service Centers, always using Makita replacement parts.

TROUBLE SHOOTING

Before asking for repairs, conduct your own inspection first. If you find a problem that is not explained in the manual, do not attempt to dismantle the tool. Instead, ask Makita Authorized Service Centers, always using Makita replacement parts for repairs.

Malfunction status	Cause	Action
Motor does not run.	Battery cartridge is not installed.	Install the battery cartridge.
	Battery problem (under voltage)	Recharge the battery. If recharging is not effective, replace battery.
	The drive system does not work correctly.	Ask your local authorized service center for repair.
Motor stops running after a little use.	Rotation is in reverse.	Change the direction of rotation with the reversing switch.
	Battery's charge level is low.	Recharge the battery. If recharging is not effective, replace battery.
	Overheating.	Stop using of tool to allow it to cool down.
It does not reach maximum RPM.	Battery is installed improperly.	Install the battery cartridge as described in this manual.
	Battery power is dropping.	Recharge the battery. If recharging is not effective, replace battery.
	The drive system does not work correctly.	Ask your local authorized service center for repair.

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OPTIONAL ACCESSORIES

⚠CAUTION:

- These accessories or attachments are recommended for use with your Makita tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Makita Service Center.

- Brushcutter attachment
- Hedge trimmer attachment
- Pole saw attachment
- Cultivator attachment
- Coffee harvester attachment
- Shaft extension attachment
- Makita genuine battery and charger

NOTE:

- Some items in the list may be included in the tool package as standard accessories. They may differ from country to country.

Makita Corporation

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